

What Is Claimed Is:

Sub a3 >

1. Single-use hygiene item, such as a diaper, incontinence article, sanitary napkin, having an absorbent element for absorbing and retaining bodily fluid and having an analysis device for the bodily fluid, characterized in that the analysis device (4) is disposed at an area of the hygiene item on which the bodily fluid to be analyzed can impinge and is separated in an essentially fluid-tight manner from the absorbent element by a separating means (8), so that bodily fluid passed by a user to be analyzed can reach the analysis device (4) directly, but bodily fluid that has penetrated to the absorbent element is retained by the separating means (8) and kept away from the analysis device (4).

2. Hygiene item in accordance with claim 1, wherein the separating medium (8) forms an insert (2) in the absorbent element containing the analysis device (4).

3. Hygiene item in accordance with claim 2, wherein the insert (2) is dish-shaped.

4. Hygiene item in accordance with claim 2 or 3, wherein the insert (2) has sidewalls (10) extending up on the side facing the body.

5. Hygiene item in accordance with one of the preceding claims 2 to 4, wherein edges (12) of the insert (2) are folded over on their upper side (14).

6. Hygiene item in accordance with one of the preceding claims 2 to 5, wherein the insert (2) delineated by a fluid-impermeable film (6).

7. Hygiene item in accordance with one of the preceding claims, wherein the insert (92) is located essentially flush-mounted with the upper side (14) of the absorbent element facing the body.

8. Hygiene item in accordance with one of the preceding claims,
wherein the analysis device (4) is positioned up against one side (20) of the
separating means (8).

*Sub a3
cont'd*

9. Hygiene item in accordance with one of the preceding claims,
5 wherein the analysis device (4) has a visual display unit.

10. Hygiene item in accordance with claim 8 or 9, wherein the side
(20) of the separating means (8) against which the analysis device is lying, is made
transparent, at least in the area of the analysis device (4), so that a visual reading of
the display unit is possible.

10 11. Hygiene item in accordance with one of the preceding claims,
wherein the separating means (8) containing the analysis device is separable from the
hygiene item.

15 12. Hygiene item in accordance with one of the preceding claims,
wherein the separating means (8) containing the analysis device (4) is fastened
detachably to the hygiene item by means of adhesive or touch-sensitive means of
attachment (28).

13. Hygiene item in accordance with one of the preceding claims,
wherein the insert (2) containing the analysis device has a fluid absorbing and
transport layer (18) which transfers the bodily fluid to the analysis device.

20 14. Hygiene item in accordance with claim 13, wherein the fluid
absorbing and transport layer (18) comprises cellulose fibers without the addition of
superabsorbent polymer materials.

15. Use of an analysis device for measuring the composition of
bodily fluids, specifically for measuring pH, nitrite, leukocyte, glucose and/or

*Sub a3
cont.*

~~electrolyte values of urine or blood, in a single-use hygiene item having an absorbent element to absorb and retain bodily fluids, such as a diaper, incontinence article or sanitary napkin.~~

add aix